| Index of Claims |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|
|                 |  |  |  |  |  |  |  |  |  |  |  |  |

Application/Control No.

09/782,693

Examiner

SUGAYA ET AL.

Applicant(s)/Patent under Reexamination

Art Unit

Alpus H. Hsu

2665

| √  | Rejected |
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| 11 | Allowed  |

\_ (Through numeral) Cancelled

Restricted

Non-Elected

I Interference

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O Objected

| Cla          | Claim Date |  |                     | )<br> <br>     | Cla         |  | Date              |                    |        |                 | ]:::::   | CI  | aim          | Date     |          |         |                 |          |              |          |          |          |         |         |   |  |          |          |
|--------------|------------|--|---------------------|----------------|-------------|--|-------------------|--------------------|--------|-----------------|----------|---|--------------|----------|----------|---------|-----------------|----------|--------------|----------|----------|----------|---------|---------|---|--|----------|----------|
|              |            |  |                     |                | $\neg \neg$ | Date   |                   |                    |        |                 | <u> </u> | ľ   |              | Т        | Т        | Ť       | Ť               |          | T)           | $\neg$   |          |          |         |         |   |  |          |          |
| Final        | Original   | 11/23/0  |                     |                |             |  |                   |                    |        | Final           | Original |   |              |          |          |         |                 |          | Final        | Original |          | į        |         |         |   |  |          |          |
| <b>—</b>     | 1          | =  | $\dashv$            | - -            | +-          | $\vdash$   | -                 |                    | -      |                 | 51       |   |              | -        | +        | +       | -               | -        |              | 101      |          | $\dashv$ | +       | +       | ╀   | $\vdash$   |          | -        |
| <u> </u>     | 2          | ┝  | $\dashv$            | $\dashv$       | +           | -  | -                 |                    | -      |                 | 52       |   | ╁            | $\vdash$ | -        | +-      |                 | -        | <del> </del> | 102      |          | +        | +-      | +-      | +   | ╁╌┤  |          | -        |
| <u> </u>     |            | -  |                     | +              | +-          | ╌  | $\longrightarrow$ |                    | -      |                 |          |   | +-           | $\vdash$ | -        |         |                 | -        | <u> </u>     |          | -        |          | +       | +-      | +   | $\vdash \vdash$                                  | $\dashv$ | $\dashv$ |
| 2            | 3          | Ξ  | -                   | +              | +           | Н  | $\vdash$          |                    | -      | <u> </u>        | 53       | $\vdash$  | +            | $\vdash$ | +        |         |                 | -        |              | 103      | -        | -        | 4       | +       | —   | $\vdash \vdash$                                  | 4        | $\dashv$ |
| 3            | 4          | 11   | $\rightarrow$       | $\perp$        |             | Ш  | $\dashv$          |                    | _      |                 | 54       |   | _            | Ш        |          |         |                 | _        |              | 104      |          |          |         | _       | ┵   | <u> </u>   |          | $\dashv$ |
| F            | 5          | =  |                     |                |             |  |                   |                    | _      |                 | 55       |   |              |          |          |         |                 | ]        |              | 105      |          |          |         |         |   |  |          | _        |
|              | 6          |  | 1.                  |                |             | L  |                   |                    |        |                 | 56       |   |              |          |          |         |                 |          |              | 106      |          |          | _1_     |         |   |  |          |          |
|              | 7          |  | 1                   |                |             |  |                   |                    |        |                 | 57       |   |              |          |          |         |                 |          |              | 107      |          |          |         |         |   |  |          |          |
|              | 8          |  |                     |                |             |  |                   |                    | 7::::  |                 | 58       |   |              |          |          |         | $\sqcap$        | 7        |              | 108      |          |          |         | T       |   | П  |          |          |
| F            | 9          | =  |                     |                |             | П  |                   |                    | 7      |                 | 59       |   | 1            | П        | T        | 1       |                 | 7::::    |              | 109      |          |          |         |         | 1   |  |          | $\neg$   |
|              | 10         | T  | $\Box$              | $\neg$         | 1           | $\Box$   |                   |                    | 7      |                 | 60       |   |              | П        | $\neg$   |         |                 | 7        |              | 110      |          |          | 1       | ┪       | $\top$  |  | $\neg$   | $\neg$   |
| 7            | 11         | =  | $\dashv$            | $\dashv$       | +           | $\vdash$   | -                 |                    | -      |                 | 61       | $\vdash$  | +            | $\vdash$ | 1        |         | $\vdash$        | 1        | $\vdash$     | 111      | Н        |          | ┰       | $\top$  | +   |  | $\dashv$ | $\dashv$ |
| 6            | 12         | ı  | $\vdash$            | $\dashv$       | +           | Н  | $\vdash$          |                    | ااا ا  |                 | 62       | $\vdash$  | +            | $\vdash$ | $\dashv$ | +       | $\vdash$        | 1        | <u> </u>     | 112      | $\vdash$ | $\dashv$ | ╁       | +       | +-  | <del>                                     </del> |          |          |
| <b></b>      | 13         | $\vdash$   | $\vdash$            | +              | +           | Н  | $\vdash \vdash$   |                    | -      | <del>  </del>   | 63       | $\vdash$  | +            | $\vdash$ | +        | +       | $\vdash$        | -        | <u> </u>     | 113      |          |          | +       | +       | +   | $\vdash$   | -        |          |
| ⊢—           |            | $\vdash$   | $\vdash$            | +              | +-          | Н  | $\vdash$          | +                  | -      |                 |          | $\vdash$  | +            | $\vdash$ | +        | +       | $\vdash$        | -        | <u> </u>     |          |          |          |         | +-      | +   | $\vdash$   | _        | -        |
| ⊢—           | 14         | <u> </u>   | Н.                  |                | -           | $\vdash$   |                   | -                  |        | <u> </u>        | 64       | $\vdash$  | +            | $\vdash$ | -        | +       | <u> </u>        | -        | ļ            | 114      | Н        |          | +       | +       | -   | $\vdash \vdash$                                  | _        | _        |
|              | 15         | $\vdash$   | $\sqcup$            | $\dashv$       | _           | $\sqcup$   | $\sqcup$          | $\perp$            | 4      | $\sqcup$        | 65       | $\vdash \vdash$   | +            |          |          | -       | $\vdash$        | 4        |              | 115      | Ш        | $\perp$  | $\bot$  | +       | 4—  |  |          |          |
|              | 16         | $oxed{oxed}$                                     | $\Box$              | $\bot$         |             | Ш  | $\square$         | _ _                | 4      |                 | 66       |   |              | Ш        |          | $\bot$  | oxdot           | 4        |              | 116      | Ш        |          | _       | +-      | 4   | $\sqcup$   | _        | _        |
| L            | 17         | L  |                     |                |             |  |                   |                    |        |                 | 67       |   | $\perp$      | Ш        |          |         |                 | _        |              | 117      |          |          | $\perp$ | ┸       | $oldsymbol{ol}}}}}}}}}}}}}}}}}$ | Ш  |          |          |
|              | 18         |  |                     |                |             |  |                   |                    |        |                 | 68       |   |              | 11       |          |         |                 | ]:::::   |              | 118      |          |          |         |         | l   |  |          |          |
|              | 19         |  |                     |                | T           |  | П                 |                    |        |                 | 69       |   | Т            |          |          |         |                 |          |              | 119      |          |          |         |         |   |  |          |          |
|              | 20         |  |                     |                |             |  | П                 |                    | 7      |                 | 70       |   |              | 1        | $\neg$   |         |                 | 7::::    |              | 120      |          |          |         | $\top$  | 1   |  |          |          |
|              | 21         | <b></b>  |                     | $\top$         | $\top$      | П  | $\Box$            | 一                  | 7      |                 | 71       |   |              |          | _        |         |                 | 1        |              | 121      |          |          | $\top$  | 1       | $\top$  |  |          |          |
|              | 22         | <del> </del>                                     | $\dashv$            |                |             | Н  | Н                 |                    | ┨      |                 | 72       |   |              | t        | _        |         |                 | ١        |              | 122      |          |          |         | +-      | ╅   |  |          |          |
|              | 23         |  | $\dashv$            |                | +           | -  | $\vdash$          | $\dashv$           | ⊢::::  | $\vdash$        | 73       | +   | <del> </del> | +        |          | _       |                 | -{:::::  |              | 123      |          | _        | +       | - -     | +   | t  |          |          |
|              | 24         | ┢  | $\dashv$            | +              | +           | ├─   | <del></del>       |                    | - :::: |                 | 74       | +   | +            | $\vdash$ | -+-      | +       |                 | -        |              | 124      |          | +        | +       | +       | +   | <del>}</del>                                     | _        |          |
|              |            | ┝  | $\dashv$            | +              | +           | $\vdash$   | $\vdash$          | -                  | -      | <u> </u>        | 74       |   |              | +        |          | +       | $\vdash$        | -        | <u> </u>     |          |          | $\vdash$ | +       | +       | +   | $\vdash$   | _        | _        |
| <u></u>      | 25         | <u> </u>   |                     | $\bot$         | _           | Щ  | $\sqcup$          | _                  | 4::::  |                 | 75       |   | -            |          | -        | -       | $\vdash$        | -        |              | 125      |          |          | - -     |         |   | $\vdash$   | _        | _        |
|              | 26         | ┞  |                     | $\perp$        | _           | Ш  | $\sqcup$          |                    | _      | Ь—              | 76       |   | _            | <u> </u> |          |         | 4               | _        |              | 126      |          |          | 4       | +-      | ┿   | $\vdash$   | _        |          |
|              | 27         |  | $\perp$             |                |             |  | $\sqcup$          |                    | _::::: |                 | 77       |   |              | 1_1      |          | _       |                 | 4        |              | 127      |          |          | 4       | _       | ╄   |  |          |          |
|              | 28         |  |                     |                |             |  |                   |                    |        |                 | 78       |   |              |          |          |         |                 | _        |              | 128      |          |          |         | $\perp$ |   | $\sqcup$   |          |          |
|              | 29         |  |                     |                |             |  |                   |                    |        |                 | 79       |   |              |          |          |         |                 |          |              | 129      |          |          |         |         |   |  |          |          |
|              | 30         |  |                     |                |             |  |                   | T                  |        |                 | 80       |   |              |          |          |         |                 | 7        |              | 130      |          |          |         |         |   |  |          |          |
|              | 31         |  |                     |                |             |  |                   |                    |        |                 | 81       |   |              |          | $\Box$   |         |                 | 7::::    |              | 131      |          |          | Т       | Т       | Т   |  |          |          |
|              | 32         |  | $\Box$              | $\top$         |             |  | $\Box$            |                    | 7::::  |                 | 82       |   | 1            | $\Box$   |          |         |                 | 7        |              | 132      |          |          | T       | 1       | 1   |  |          |          |
|              | 33         | T  |                     | 十              | 1           |  | $\Box$            | $\neg$             | 7::::  |                 | 83       |   |              | 1        | _        | 1       |                 | 7::::    |              | 133      |          |          | ┰       | $\top$  |   | 1  |          |          |
|              | 34         | $\vdash$   | $\vdash$            | +              | $\top$      | П  | $\vdash$          | $\dashv$           | ┧      | $\vdash$        | 84       | $\vdash$  | 1-           | $\vdash$ | _        |         |                 | 1        |              | 134      | H        |          | $\top$  | 十       | $\top$  | $\vdash$   |          |          |
|              | 35         | <del>                                     </del> | $\vdash \vdash$     |                | +           | $\vdash$   | $\vdash$          | -+                 | ۱      | $\vdash$        | 85       | $\vdash$  | +-           | $\vdash$ |          | +       | -               | 1        | <b></b>      | 135      |          |          | +       | +       | +   | 1  | $\neg$   |          |
|              | 36         | ╁  | <del>   </del>      |                |             | $\vdash$   | -                 |                    | -      | $\vdash$        | 86       | $\vdash$  | +            | +        |          |         |                 | -        | $\vdash$     | 136      | $\vdash$ | +        | +       | +       | +-  | 1-1  | $\dashv$ |          |
| <del> </del> |            | <del> </del>                                     | <del></del>         |                |             | $\vdash$   | $\vdash \vdash$   |                    | -      | $\vdash \vdash$ |          | $\vdash$  | +            | $\vdash$ |          | +       |                 | -        | <u> </u>     |          | H        | $\vdash$ | +       | +       | +   | $\vdash$   |          |          |
| <u> </u>     | 37         | <del> </del>                                     | <del>   </del>      | <del> </del> - |             | $\vdash$   | $\vdash \vdash$   |                    | -      | <u> </u>        | 87       | $\vdash$  |              | $\vdash$ | -        |         |                 | -        | <u> </u>     | 137      | $\vdash$ |          | - -     | +-      | -   | $\vdash$   |          | -        |
|              | 38         | <del> </del>                                     | $\vdash \downarrow$ | _              | -           | Ш  | $\sqcup$          | $\dashv$           | 4: ::  | igwdap          | 88       | ⊢-  | -            |          |          | -       | $\vdash \vdash$ | 4        |              | 138      | <b> </b> | $\vdash$ | - -     | +       | +-  | $\vdash$   | _        | _        |
|              | 39         | $\perp$  | <b> </b>            |                | $\perp$     | Ш  | Щ                 |                    | 4::::  | ļ               | 89       |   | Ц            | $\sqcup$ | $\perp$  | $\perp$ | $\vdash \vdash$ | 4        | <u> </u>     | 139      | Ш        |          | _       | +       | +   | $\sqcup$   | _        |          |
|              | 40         | $\perp$  | Ш                   | $\perp$        |             | Ш  | Щ                 | $\perp \downarrow$ | _      | L               | 90       |   |              | $\sqcup$ | $\perp$  | $\perp$ |                 | _        | L            | 140      | Ш        | $\Box$   | $\perp$ | $\perp$ | _   | $oxed{oxed}$                                     |          |          |
|              | 41         | $oxed{oxed}$                                     |                     |                |             | Ш  |                   |                    | _      |                 | 91       | $oldsymbol{ol}}}}}}}}}}}}}}}}}$ |              | Ш        |          |         |                 | _        |              | 141      |          |          | ᆚ       | $\perp$ | 1_  | $\sqcup$   |          |          |
|              | 42         |  |                     |                |             |  |                   |                    | _ :::: |                 | 92       | $\Box \Gamma$   | $\perp$      | ШI       |          |         |                 |          | L            | 142      |          |          |         | $\perp$ |   | Ш  |          |          |
|              | 43         | Γ  |                     |                | T           | П  |                   | T                  | 7      |                 | 93       |   |              |          |          |         |                 | 1::::    |              | 143      |          | T        | J       |         |   | $\Box \Box$                                      |          |          |
|              | 44         | Г  |                     |                |             | П  | $\sqcap$          | $\neg$             | 7      |                 | 94       |   | $\top$       | П        |          |         |                 | 7        |              | 144      |          |          | Ŧ       | T       |   | П  |          |          |
|              | 45         | Ι  | $\Box$              | $\top$         | 1           | П  | $\Box$            | $\neg$             | 7::::  |                 | 95       | $\neg$  | $\top$       | П        | $\neg$   |         |                 | 1        |              | 145      |          |          | ┰       | 7       | 1   | П  |          |          |
|              | 46         | 1  | 1                   | $\top$         | $\top$      | Н  | $\vdash$          | $\dashv$           | 1      |                 | 96       |   | $\top$       | 1        | _        |         | $\neg$          | 1        | 一 ·          | 146      | Н        | $\neg$   | _       | +       | 1   | П  |          | $\neg$   |
| <del></del>  | 47         | ╁╌   |                     |                |             | <del>                                     </del> | $\vdash$          | $\dashv$           | ::::   | $\vdash$        | 97       |   | +-           | ╁        | +        | +       | $\vdash \vdash$ | 1        |              | 147      | -        | +        | ╁       | +       | +   | $\vdash$   | -        | $\neg$   |
|              | 47         | <del>                                     </del> | -                   | $\dashv$       | +           | $\vdash$   | $\vdash \vdash$   | +                  | -      | $\vdash$        | 98       | +   | +-           | ┼┤       |          | +       |                 | <b>⊣</b> |              | 148      | $\vdash$ | $\dashv$ | +       | +       | +   | $\vdash$   | $\dashv$ | $\dashv$ |
|              |            | -  | $\dashv$            |                | +-          | $\vdash$   | ┯                 | -                  | -      | $\vdash$        |          | $\dashv$  | +            | ┝╌┦      |          | +       |                 | -{::::   | <del> </del> |          | $\vdash$ |          | ╁       | +       | +-  | $\vdash$   |          | $\dashv$ |
|              | 49         | $\vdash$   |                     | -              | +           | $\vdash \vdash$                                  |                   | -                  | -      | $\vdash \vdash$ | 99       | $\dashv$  | +            | ├        |          | +       |                 | 4        |              | 149      |          |          | +       | +       | +   | $\vdash$   |          |          |
| L            | 50         |  |                     |                |             | 11   |                   |                    | ني: ال |                 | 100      |   |              |          |          |         |                 | إنفقال   | L            | 150      | Ш        |          |         |         |   |  |          |          |